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## **WE CLAIM:**

1. A computer program product for controlling a computer to scan a compressed computer file for malware, said compressed computer file being compressed using a compression algorithm, said computer program product comprising:

comparison code operable to compare a plurality of compressed malware signatures compressed using said compression algorithm with said compressed computer file to identify malware within said compressed computer file.

A computer program product as claimed in claim 1, further comprising:
 detection code operable to detect from a compressed computer file to be
 scanned what compression algorithm has been used to compress said compressed
 computer file; and

compression code operable to compress a plurality of uncompressed malware signatures using said detected compression algorithm to generate said plurality of compressed malware signatures.

- 3. A computer program product as claimed in claim 2, wherein said detection code reads compression algorithm specifying data from said compressed computer file.
- 4. A computer program product as claimed in claim 3, wherein said compression algorithm uses Huffman coding and said compression algorithm specifying data includes a Huffman coding table used to compressed said compressed computer file.
- 5. A computer program product as claimed in claim 1, wherein said comparison code uses a Boyer Moore algorithm or an algorithm based upon structuring the signatures in a tree.
- 6. A computer program product as claimed in claim 1, wherein said malware includes at least one of computer viruses, Trojans, worms, banned files and e-mails containing banned content.

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7. A method of scanning a compressed computer file for malware, said compressed computer file being compressed using a compression algorithm, said method comprising the step of:

comparing a plurality of compressed malware signatures compressed using said compression algorithm with said compressed computer file to identify malware within said compressed computer file.

- 8. A method as claimed in claim 7, further comprising the steps of:

  detecting from a compressed computer file to be scanned what compression
  algorithm has been used to compress said compressed computer file; and
  compressing a plurality of uncompressed malware signatures using said
  detected compression algorithm to generate said plurality of compressed malware
  signatures.
- 9. A method as claimed in claim 8, wherein said step of detecting reads compression algorithm specifying data from said compressed computer file.
- 10. A method as claimed in claim 9, wherein said compression algorithm uses Huffman coding and said compression algorithm specifying data includes a Huffman coding table used to compressed said compressed computer file.
- 11. A method as claimed in claim 7, wherein said step of comparing uses a Boyer Moore algorithm or an algorithm based upon structuring the signatures in a tree.
- 25 12. A method as claimed in claim 7, wherein said malware includes at least one of computer viruses, Trojans, worms, banned files and e-mails containing banned content.
  - 13. Apparatus for scanning a compressed computer file for malware, said compressed computer file being compressed using a compression algorithm, said apparatus comprising:

comparison logic operable to compare a plurality of compressed malware signatures compressed using said compression algorithm with said compressed computer file to identify malware within said compressed computer file.

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14. Apparatus as claimed in claim 13, further comprising:

detection logic operable to detect from a compressed computer file to be scanned what compression algorithm has been used to compress said compressed computer file; and

compression logic operable to compress a plurality of uncompressed malware signatures using said detected compression algorithm to generate said plurality of compressed malware signatures.

- 15. Apparatus as claimed in claim 14, wherein said detection logic reads compression algorithm specifying data from said compressed computer file.
  - 16. Apparatus as claimed in claim 15, wherein said compression algorithm uses Huffman coding and said compression algorithm specifying data includes a Huffman coding table used to compressed said compressed computer file.
  - 17. Apparatus as claimed in claim 13, wherein said comparison code uses a Boyer Moore algorithm or an algorithm based upon structuring the signatures in a tree.
- 18. Apparatus as claimed in claim 13, wherein said malware includes at least one of computer viruses, Trojans, worms, banned files and e-mails containing banned content.